CPI_top_changes

February 7, 2025

1 Setup and Data

```
/var/folders/m9/b19pphns6hqc2k27c3qtngn40000gn/T/ipykernel_10082/4072371967.py:6
1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
  primary_categories[f'Change_{start_year}_{end_year}'] =
primary_categories[str(end_year)] - primary_categories[str(start_year)]
```

2 Output

```
Average Price Index for Each Year from 1997 to 2022
+----+------+--------------------+
|    | Year | Average_Price_Index |
+----+------+--------------------+
| 0  | 1997 |  84.84172494172493  |
| 1  | 1998 |  88.0539627039627   |
| 2  | 1999 |  92.08449883449883  |
| 3  | 2000 |  92.40844988344989  |
| 4  | 2001 |  91.93059440559442  |
| 5  | 2002 |  93.01468531468532  |
| 6  | 2003 |  92.77418414918414  |
| 7  | 2004 |   91.741317016317   |
| 8  | 2005 |  91.5775641025641   |
| 9  | 2006 |  93.0368881118881   |
| 10 | 2007 |  93.34673659673658  |
| 11 | 2008 |  96.54294871794875  |
| 12 | 2009 |  96.92884615384615  |
| 13 | 2010 |  97.6011072261072   |
| 14 | 2011 |  100.7518648018648  |
| 15 | 2012 | 101.05378787878787  |
| 16 | 2013 | 102.11270396270396  |
| 17 | 2014 | 101.21066433566433  |
| 18 | 2015 |  99.84545454545456  |
| 19 | 2016 |  98.56136363636365  |
```

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| 20 | 2017 |  97.74842657342658  |
| 21 | 2018 |  97.17663170163172  |
| 22 | 2019 |  97.25017482517482  |
| 23 | 2020 |  96.14720279720282  |
| 24 | 2021 |  96.84428904428904  |
| 25 | 2022 |  99.98648018648018  |
+----+------+--------------------+
```

Top 20 Price Increases from 1997 to 2022

	Description	Change_1997_2022
65	Kerosene and Diesel for Home Heating	90.09
145	Cigarettes and Tobacco	74.15
64	Gas for Household Use	68.21
143	Postal Services	65.94
28	Margarine	64.93
13	Bread	62.38
15	Flour	61.81
49	Meals at Work	60.59
20	Beef	60.02
122	Hospitality Recreation and Travel	60.02
60	Painting Plastering etc.	59.64
21	Other Meat Lamb and Pork	58.43
129	Health Insurance Services HMOs and Private Insurers	56.21
48	Meals Outside the Home	55.35
50	Meals at Restaurants and Cafés	54.97
139	Driving Lessons Vehicle Rental etc.	54.92
26	Oils and Margarine	54.36
128	Medical Services	54.15
51	Groceries from Kiosks and Convenience Stores	53.42
66	Water and Sewage Services for Household Use	53.36

Top 20 Price Decreases from 1997 to 2022

	Description	Change_1997_2022
78	Bedding and Towels	-513.53
124	Hobbies	-240.55

106	Women's Footwear	-214.24
92	Women's Outerwear	-163.53
104	Footwear	-152.34
107	Children's Footwear	-140.91
105	Men's Footwear	-121.09
93	Children's and Infants' Outerwear	-103.28
125	Toys for Children and Youth	-93.69
89	Clothing and Footwear	-84.94
90	Clothing	-70.66
142	Telephone Internet TV and Communication Products	-65.82
141	Communication	-64.92
86	Other Kitchen and Home Electrical Equipment e.g. Microwave Vacuum Cleaner	-63.01
123	Entertainment Electronics	-61.98
77	Bedding and Decorative Items for the Home	-56.53
91	Men's Outerwear	-52.0
134	Glasses and Optical Products	-44.79
84	Electrical Equipment for the Home	-39.83
155	Bags Suitcases Backpacks and Wallets	-33.69
+-----+--+-----------------+

Top 20 Price Increases from 1997 to 2022

Legend:
- Kerosene and Diesel for Home Heating
- Cigarettes and Tobacco
- Gas for Household Use
- Postal Services
- Margarine
- Bread
- Flour
- Meals at Work
- Beef
- Hospitality Recreation and Travel
- Painting Plastering etc.
- Other Meat Lamb and Pork
- Health Insurance Services HMOs and Private Insurers
- Meals Outside the Home
- Meals at Restaurants and Cafés
- Driving Lessons Vehicle Rental etc.
- Oils and Margarine
- Medical Services
- Groceries from Kiosks and Convenience Stores
- Water and Sewage Services for Household Use

Top 20 Price Decreases from 1997 to 2022

Legend:
- Bedding and Towels
- Hobbies
- Women's Footwear
- Women's Outerwear
- Footwear
- Children's Footwear
- Men's Footwear
- Children's and Infants' Outerwear
- Toys for Children and Youth
- Clothing and Footwear
- Clothing
- Telephone Internet TV and Communication Products
- Communication
- Other Kitchen and Home Electrical Equipment e.g. Microwave Vacuum Cleaner
- Entertainment Electronics
- Bedding and Decorative Items for the Home
- Men's Outerwear
- Glasses and Optical Products
- Electrical Equipment for the Home
- Bags Suitcases Backpacks and Wallets